lName:	Key	Block:
	,	

Problems for Points 5.06, 5.08 and 5.11

- 1. At a grocery store, the cashier asks John if he wants to join the store's Super Savings Club. It costs \$30.00 to join. The club entitles members to a 15% discount off the original price of groceries.
 - Suppose d is John's total cost of groceries without a membership. Find a rule C(d) for John's total cost of groceries with a membership, Include the \$30.00 membership fee.

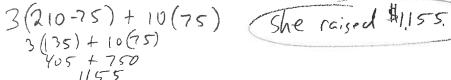
c. How much does John have to spend on groceries to make joining the club worth the

membership fee?

d>0.85d+30 d7200 John has to spend -0.85d -0.85d Mare then \$200.

- 2. Miranda collects money for entries in the Fall Harvest Fun Walk and the 5K Run. An entry in the Fun Walk costs \$3.00. An entry in the 5K Run costs \$10.00. Miranda counts 210 entries in all.
 - a. Miranda hopes to get 75 entries in the 5K Run. If she reached her goal, how much money did she

collect?



b. After counting the money, Miranda has \$1260. How many 5K Run entries are there? Did she reach her goal? 1260 = 3(210-R) + 10R 7.630 = 7R Let R be He number of 90 = R Ves, she reached her goal.)

3. Complete each table and decide if it represents a linear function. Answer yes or no.

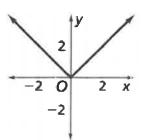
Input	Output	Δ
0	1	3
1	4	3
2	7	7

0	1	3
1	4	3
2	7	3
3	10	3
4	13	

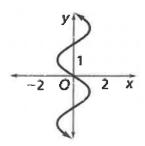
input	Output '	Δ
0	-4	0
1	-4	2
2	-2	Ч
3	2	6
4	8	20 C

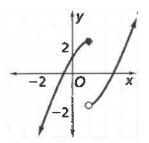
4. Determine if the graph is a function. Then write yes or no on the line.

a. 485

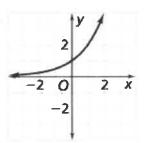


b. A O

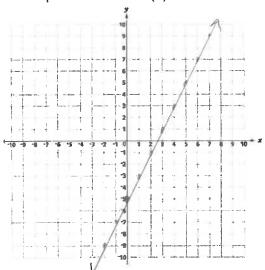




d. <u>Yes</u>



5. Graph the function f(x) = 2x - 5.



6. Graph the function $g(x) = x^2 - 3$.

